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PATENT COOPERATION TREATY

PCT/DE2003/001638



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference R.303569 IP1 Km/Mi	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/DE2003/001638	International filing date (day/month/year) 20 May 2003 (20.05.2003)	Priority date (day/month/year) 28 June 2002 (28.06.2002)
International Patent Classification (IPC) or national classification and IPC B60S 1/40		
Applicant ROBERT BOSCH GMBH		

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<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of _____ sheets.</p>
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>

Date of submission of the demand 27 January 2004 (27.01.2004)	Date of completion of this report 03 September 2004 (03.09.2004)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DE2003/001638

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

- ☐ the international application as originally filed
- ☒ the description:  
pages \_\_\_\_\_ 1-19 \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☒ the claims:  
pages \_\_\_\_\_ 1-26 \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement under Article 19  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☒ the drawings:  
pages \_\_\_\_\_ 1/9-9/9 \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/fig \_\_\_\_\_

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DE 03/01638

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Claims	2-26	YES
	Claims	1	NO
Inventive step (IS)	Claims	2-26	YES
	Claims	1	NO
Industrial applicability (IA)	Claims	1-26	YES
	Claims		NO

### 2. Citations and explanations

Reference is made to the following document:

D1: DE 44 13 661 A (JOURNEE PAUL SA)

17 November 1994 (1994-11-17)

#### 1 INDEPENDENT CLAIM 1

The present application does not meet the requirements of PCT Article 33(2) because the subject matter of the independent claim is not novel.

1.1 D1, which is considered to represent the closest prior art in relation to the subject matter of claim 1, discloses (the references in parentheses are to this document):

Wiper blade having a connecting element (cf. figure 1) which is attached to a supporting element (1, 2, 3) of the wiper blade and has a hinge (7, 8) of a joint, the free end of said pin being connected to a wiper rod (via connecting member 30), the joint (7, 8) comprising a cap element (12, 13) which covers the connecting element (cf. figures 2 and 3) and is

Translation

PATENT COOPERATION TREATY

PCT/DE2003/002017



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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2002P08418WO	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/DE2003/002017	International filing date (day/month/year) 16 June 2003 (16.06.2003)	Priority date (day/month/year) 28 June 2002 (28.06.2002)
International Patent Classification (IPC) or national classification and IPC B06B 1/02		
Applicant SIEMENS AKTIENGESELLSCHAFT		

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3. This report contains indications relating to the following items:  I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application

Date of submission of the demand 19 November 2003 (19.11.2003)	Date of completion of this report 21 September 2004 (21.09.2004)
Name and mailing address of the IPEA/EP  Facsimile No.	Authorized officer  Telephone No.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DE2003/002017

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

- ☐ the international application as originally filed
- ☒ the description:  
pages \_\_\_\_\_ 5-11 \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_ 1-4, 4a, 4b \_\_\_\_\_, filed with the letter of \_\_\_\_\_ 22 April 2004 (22.04.2004)
- ☒ the claims:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement under Article 19  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_ 1-10 \_\_\_\_\_, filed with the letter of \_\_\_\_\_ 22 April 2004 (22.04.2004)
- ☒ the drawings:  
pages \_\_\_\_\_ 1/5-5/5 \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

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- ☐ the language of a translation furnished for the purposes of international search.(under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
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# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DE 03/02017

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N)	Claims	1-10	YES
	Claims		NO
Inventive step (IS)	Claims	1-10	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-10	YES
	Claims		NO

### 2. Citations and explanations

Reference is made to the following documents:

D1: DE 198 14 331 A (DORNIER MEDTECH)

14 October 1999 (1999-10-14)

D2: SU 1 747 188 A (SHIP ELEC ENG TECHN INST)

15 July 1992 (1992-07-15)

The subject matter of the invention is an electric circuit for an electromagnetic source for generating acoustic waves (independent claim 1).

The closest prior art is represented by D1, which discloses (the references in parentheses are to this document) an electric circuit for an electromagnetic source (10) for generating acoustic waves, wherein the electric circuit comprises a capacitor (C1) that is connected in parallel to a series circuit comprising a second capacitor (C2) and a valve (7). D1 does not disclose the characterizing features of claim 1:

- (i) that the first valve is connected such that, after the two capacitors have been charged, it remains nonconductive during discharge of the first capacitor as long as the first capacitor is

charged with a greater voltage than the second capacitor and becomes conductive as soon as the charging voltage of the first capacitor, which discharges first, at least substantially equals the charging voltage of the second capacitor, whereby the second capacitor begins to discharge and the two discharging capacitors supply the coil of the electromagnetic source with current.

D2 likewise fails to disclose the features (i).

The subject matter of claim 1 is therefore novel (PCT Article 33(2)).

The problem addressed by the invention is that of enabling the properties of the acoustic waves to be varied.

The problem is solved by the features (i), which permit the capacitance of the electric circuit to be arranged so as to be variable in relation to time, whereby the waveform of the current flowing through the coil of the electromagnetic source and thus, in turn, the properties of the acoustic waves generated are likewise variable. Neither D1 nor D2 suggests to a person skilled in the art solving the above-indicated problem by the features (i).

The solution to this problem proposed in claim 1 of the present application therefore involves an inventive step (PCT Article 33(3)).

Claims 2-10 are dependent on claim 1 and therefore likewise meet the PCT requirements for novelty and inventive step.